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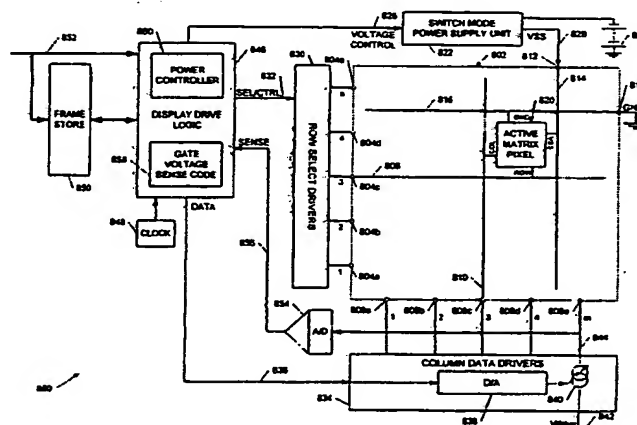
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(54) Title: DISPLAY DRIVER CIRCUITS



(57) Abstract: This invention generally relates to display driver circuits for electro-optic displays, and more particularly relates to circuits and methods for driving active matrix organic light emitting diode displays with greater efficiency. A display driver (800) for an electroluminescent display (802), the display comprising a plurality of electroluminescent display elements each associated with a display element driver circuit (820), each said display element driver circuit including a drive transistor having a control connection for driving the associated display element in accordance with a voltage on the control connection, the display driver comprising at least one display element brightness controller (846) to provide an output to drive a said control connection to control the electroluminescent output from a said display element; a voltage sensor (854, 858) to sense the voltage on a said control connection; and a power controller (860) for controlling an adjustable power supply for providing an adjustable voltage to said electroluminescent display to power said drive transistors for driving said display elements, said power controller being configured to provide a control signal to adjust said power supply voltage in response to said sensed voltage.